

GitOps with ArgoCD Training

COURSE CONTENT

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About Multisoft

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About Course

GitOps with ArgoCD training by Multisoft Systems is designed to help professionals implement modern, scalable, and reliable continuous delivery practices for Kubernetes environments. This training focuses on GitOps principles, where Git acts as the single source of truth for infrastructure and application configurations, ensuring consistency, traceability, and automation across deployments.

Module 1: Introduction to GitOps and Argo CD

- ✓ Understanding GitOps
- ✓ Introduction to ArgoCD
- ✓ Why GitOps with ArgoCD?
- ✓ Comparison of different GitOps techniques

Module 2: Getting Ready

- ✓ Installing and configuration of Git
- ✓ Setting Kubernetes cluster
- ✓ Installation of ArgoCD

Module 3: GitOps Workflow and Best Practices

- ✓ GitOps Git repository structure
- ✓ Manifests, helm charts and Customize
- ✓ Best practices

Module 4: ArgoCD Indepth

- ✓ Architecture
- ✓ Demo of simple application deployment in ArgoCD
- ✓ Demo of simple application deployment in ArgoCD using Helm chart
- ✓ Demo of simple application deployment in ArgoCD using Customize
- ✓ Passing application information using secrets
- ✓ Synchronization and Rollback in ArgoCD

Module 5: ArgoCD Advance features and Integration

- ✓ Multi-cluster deployment
- ✓ Application Sets
- ✓ Demo of simple application deployment in ArgoCD using Helm chart
- ✓ Blue Green deployment Implementation

- ✓ Canary deployment Implementation

Module 6: ArgoCD CI/CD pipeline

- ✓ Sample application preparation
- ✓ ArgoCD with GitHub
- ✓ CI pipeline with GitHub actions
- ✓ ArgoCD for continuous deployment (CD)

Module 7: ArgoCD for custom configuration management

- ✓ ArgoCD plugins
- ✓ Introducing Terraform with ArgoCD

Module 8: ArgoCD Resource hooks

- ✓ Need of Hooks
- ✓ Using PreSync Hook
- ✓ Using Sync hook
- ✓ Using PostSync and SyncFail hook
- ✓ Using PostDelete hook